Contents

Page

8 IBS Program 8-3

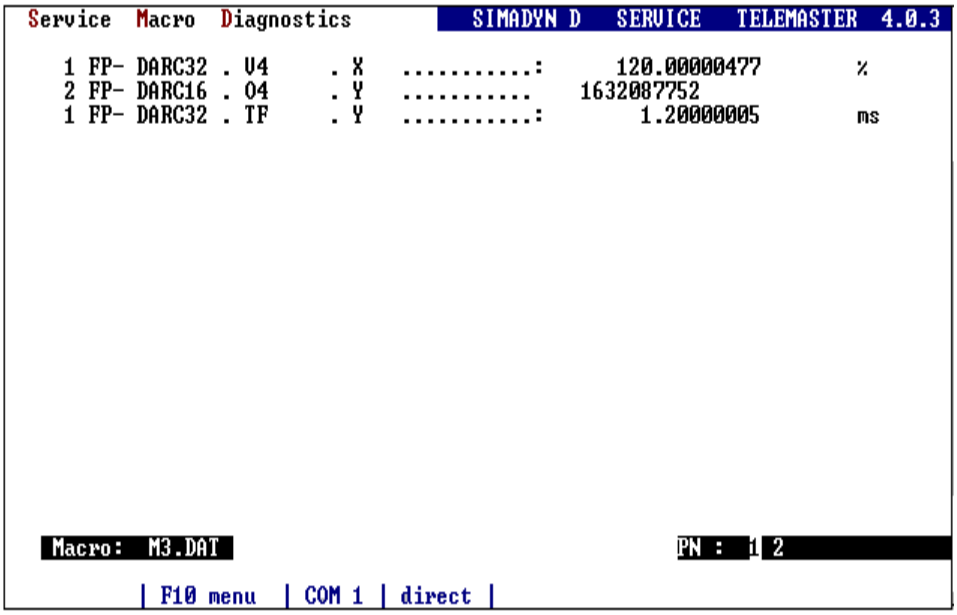
8.1 Service 8-4
8.1.1 Display Value 8-6
8.1.2 Change Value 8-7
8.1.3 DIsplay connection 8-8
8.1.4 Change connection 8-9
8.1.5 Repeat parameter set 8-11
8.1.6 Stepping through parameters 8-11
8.1.7 Condense screen 8-11
8.1.8 Delete value 8-12
8.1.9 Reset service / monitor 8-12
8.1.10 Save commands and exit IBS 8-12
8.1.11 Exit IBS 8-12
8.1.12 EXit program 8-13

8.2 Macro 8-13
8.2.1 Repeat entire macro 8-13
8.2.2 Stepping through macro 8-15
8.2.3 New macro 8-17
8.2.4 Edit macro 8-18
8.2.5 Condense Screen into macro 8-20
8.2.6 Save actual parameters 8-22

8.3 Diagnostic 8-23
8.3.1 PM 16 commands 8-23
8.3.2 Display Information 8-24
8.3.3 Display Address 8-25
8.3.4 Break monitor 8-26
8.3.5 PM 3 commands 8-26
8.3.6 Commands (storing) 8-27
8.3.7 Hex dump 8-28
8.3.8 Hex dump (single) 8-28
8.3.9 System information 8-29
8.3.10 System analyse 8-29
8.3.11 Start debug monitor 8-30
8.3.12 Reset service / monitor 8-30

8 IBS Program

Using this IBS program, both the 16 bit (monitor) as well as the 32-bit generation (services) from SIMADYN D can be used for communications. All active processors are displayed (32-bit processors, inverse!). Up to 18 values can be displayed on the screen. However, for the 16-bit generation, only a maximum of 10 values per processor can be updated (due to the monitor). When a value is being updated, this can be identified by the flashing colon before the value.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
1 FP- DARC32 . V4 . X .....: 120.00000477 %
2 FP- DARC16 . O4 . Y 1632087752
1 FP- DARC32 . TF . Y .....: 1.20000005 ms
Macro: M3.DAT
PN : 1 2
| F10 menu | COM 1 | direct |

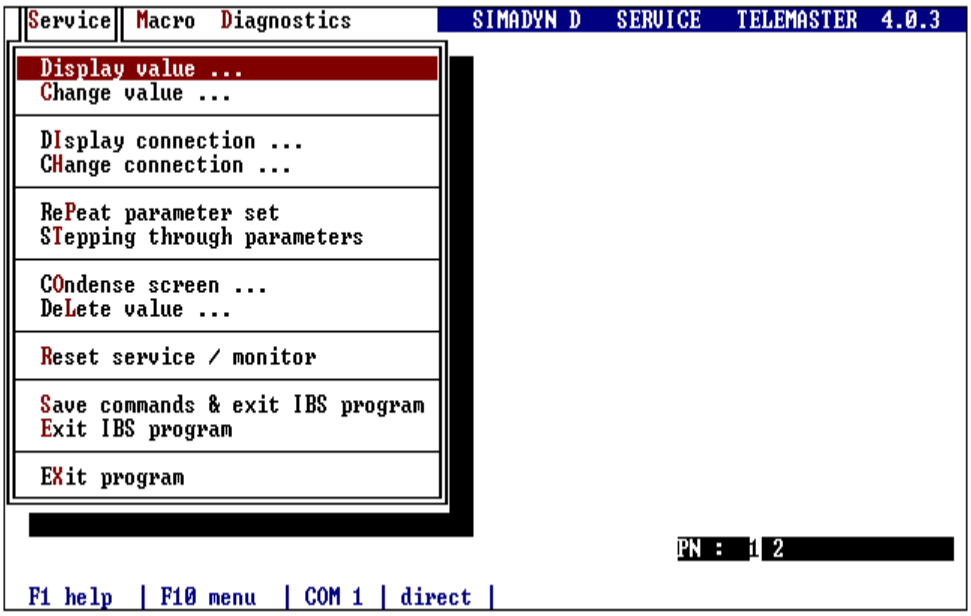
Connections are shown and changed parallel to real-time display of current values. One macro can display up to a maximum of 18 parameters. (There may be several macros; however, the number depends on the amount of memory available). These values may be saved on the hard disk or on a floppy diskette. Additional special commands permit fast and comprehensive diagnostics.

The following should be observed when entering data:

The <- and -> keys move the cursor through the entry fields. To go from one field into the next one to the right, you must press the TAB, CURSOR DOWN or POINT key; to reach the next field to the left, use the SHIFT TAB or CURSOR UP key.

The IBS program is arranged in these 3 topic headings: **Service**, **Macro**, and **Diagnostics**.

8.1 Service



For the first four menu options - Display value, change value, display connection and change connection the following is valid.

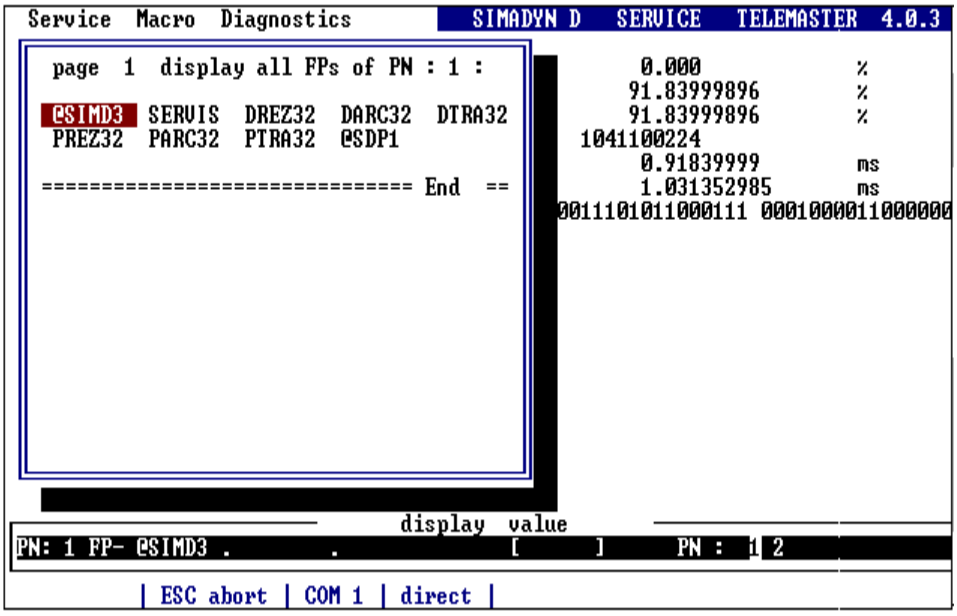
The following is possible if the cursor is positioned to the PN data entry field

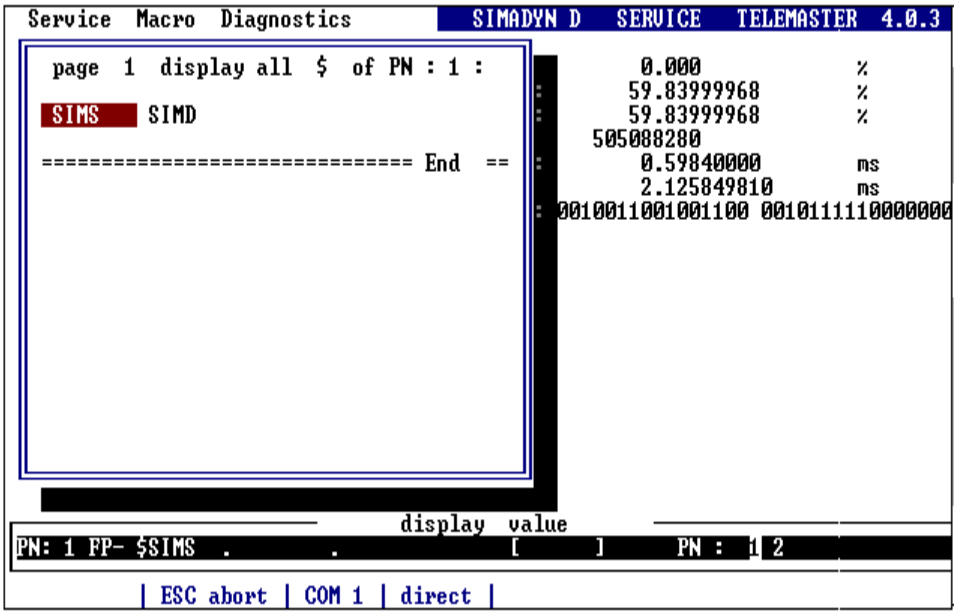
a: After a valid processor number has been entered, using the keys + and -, the previous command can be re-displayed, so that if required it can be changed, and then executed with RETURN.

b: By entering t or T, values already displayed on the screen can be transferred to the input line using the cursor control keys - processor, function package, - function block or also connector (return with TAB).

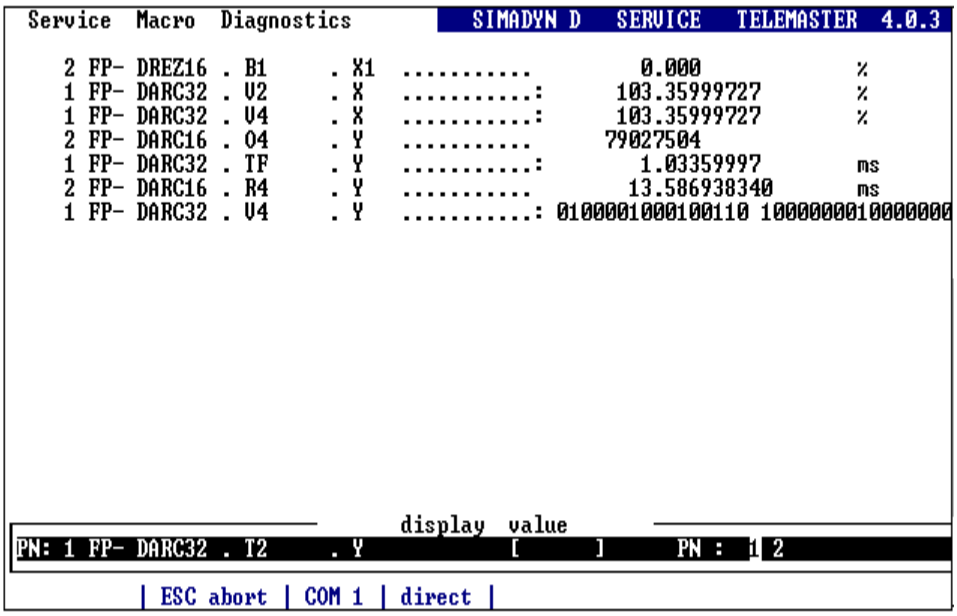
c: By clicking the mouse on already displayed processors, function packages, function blocks, as well as connectors, then the appropriate parameters can be transferred into the command line.

If path information, such as function package, function block or connector are missing, all of those available are displayed in a dedicated window. If a $ without additional letters is entered instead of a function package name, all projected $ signal names are displayed (only available for PM3: option display value and display connection). If there are more than 60 (PM16:40) function packages, function blocks, connectors or $ signal names, then a maximum of 60 (PM16:40) additional ones can be displayed by entering PAGE DOWN or by clicking the mouse on the lower edge of the window. The previous page is selected by PAGE UP or clicking the mouse on the upper edge of the window. The required name is transferred into the input line via the cursor control keys or by directly clicking with the mouse, and the connector values are requested using RETURN (by clicking on the mouse twice, this requests it directly).


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
page 1 display all FPs of PN : 1 :
@SIMD3 SERVIS DREZ32 DARC32 DTRA32
PREZ32 PARC32 PTRA32 @SDP1
End ==
0.000 %
91.83999896 %
91.83999896 %
1041100224
0.91839999 ms
1.031352985 ms
0011101011000111 0001000011000000
display value
PN: 1 FP- @SIMD3 . . [ ] PN : 1 2
| ESC abort | COM 1 | direct |



8.1.1 Display Value


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
2 FP- DREZ16 . B1 . X1 ..... 0.000 %
1 FP- DARC32 . U2 . X .....: 103.35999727 %
1 FP- DARC32 . U4 . X .....: 103.35999727 %
2 FP- DARC16 . O4 . Y 79027504
1 FP- DARC32 . TF . Y .....: 1.03359997 ms
2 FP- DARC16 . R4 . Y ..... 13.586938340 ms
1 FP- DARC32 . U4 . Y .....: 0100001000100110 1000000010000000
display value
PN: 1 FP- DARC32 . T2 . Y [ ] PN : 1 2
| ESC abort | COM 1 | direct |

This command makes it possible to output analog and binary values. The syntax for this is as follows:

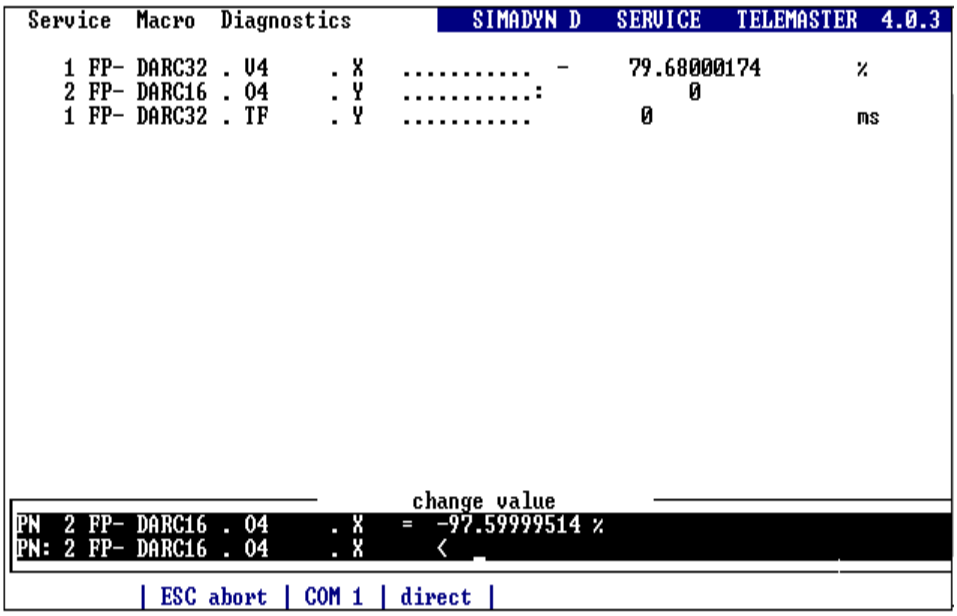
PN: [n] FP- [xxxxxx] . [yyyyyy] . [zzz] [d]

n : is the processor number
xxxxxx : function package
yyyyyy : function block
zzz : connector
d : dimension (optional): H (hex) or B (binary)

If a $ is entered as the first character of the FP field, any input of function blocks and connectors will no longer be considered, only a dimension specification.

Change value is directly selected by entering C (only if the cursor is in the PN-data entry field).

8.1.2 Change Value


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
1 FP- DARC32 . V4 . X ..... - 79.68000174 %
2 FP- DARC16 . O4 . Y .....: 0
1 FP- DARC32 . TF . Y ..... 0 ms
change value
PN 2 FP- DARC16 . O4 . X = -97.59999514 %
PN: 2 FP- DARC16 . O4 . X <
| ESC abort | COM 1 | direct |

This command makes it possible to change analog and binary values. The syntax for this is as follows:

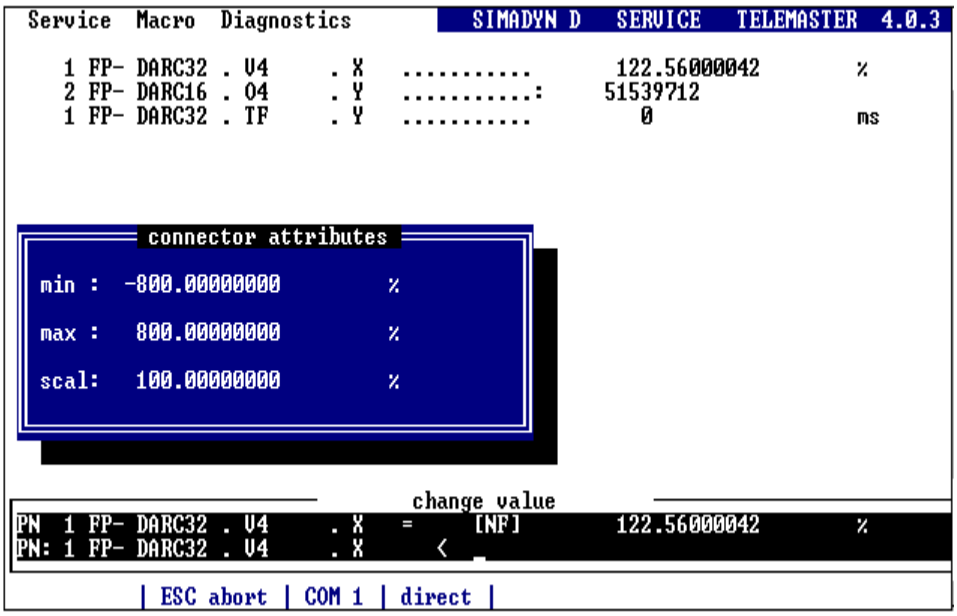
PN: [n] FP- [xxxxxx] . [yyyyyy] . [zzz]

n : is the processor number
xxxxxx : function package
yyyyyy : function block
zzz : connector

After the entry is completed correctly, the current value appears after the 'equals' sign (=) on the top line. At this point you may enter a new value and any changes in the top line will be monitored. As long as these changes have not yet been confirmed by pressing ENTER, you may enter new values. If you press ENTER, you will be asked whether this new value should be saved or not. If you press ENTER again, either with or without specifying **N** for no (N is the default), the value is saved in the processor's RAM. If you enter a **Y** before pressing ENTER, the value is saved in the processor's EEProm.
Please note: If you press the **TAB** key instead of **ENTER** at the Save Y/N question, the entry will be updated, the cursor returns to the first entry field where you can make changes to another value.
By entering D, the display value is directly selected (only if the cursor is in the PN data entry field).

The following applies only to the PM3.

The value range window (connector attributes), displayed for a value which can be changed, is closed using function key F8.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
1 FP- DARC32 . V4 . X ..... 122.56000042 %
2 FP- DARC16 . O4 . Y .....: 51539712
1 FP- DARC32 . TF . Y ..... 0 ms
connector attributes
min : -800.00000000 %
max : 800.00000000 %
scal: 100.00000000 %
change value
PN 1 FP- DARC32 . V4 . X = [NF] 122.56000042 %
PN: 1 FP- DARC32 . V4 . X <
| ESC abort | COM 1 | direct |

If you want to change a value several times without the save Y/N question being made, value changes are possible using the following function keys:

F1 : Initial value before the 1st change
F2 : Next to last value which was entered
F3 : Last value which was entered

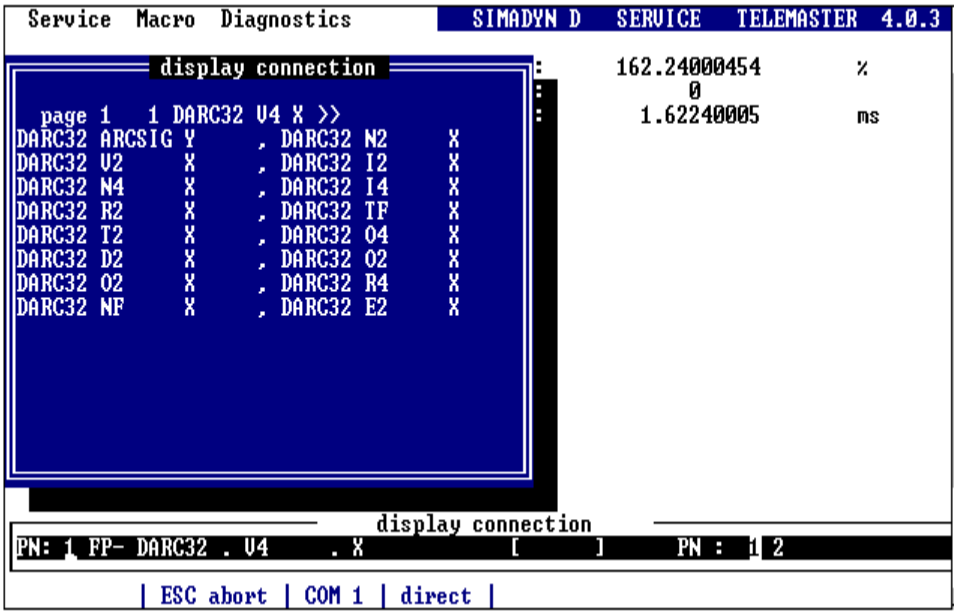
8.1.3 DIsplay connection

This command displays the connections between the blocks. The syntax for this is as follows:

PN: [n] FP- [xxxxxx] . [yyyyyy] . [zzz]

n : is the processor number
xxxxxx : function package
yyyyyy : function block
zzz : connector

If a $ is entered as the first character of the FP field, any input of function blocks and connectors will no longer be considered.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
display connection
page 1 1 DARC32 V4 X >>
DARC32 ARCSIG Y , DARC32 N2 X
DARC32 V2 X , DARC32 I2 X
DARC32 N4 X , DARC32 I4 X
DARC32 R2 X , DARC32 TF X
DARC32 T2 X , DARC32 O4 X
DARC32 D2 X , DARC32 O2 X
DARC32 O2 X , DARC32 R4 X
DARC32 NF X , DARC32 E2 X
162.24000454 %
0
1.62240005 ms
display connection
PN: 1 FP- DARC32 . V4 . X [ ] PN : 1 2
| ESC abort | COM 1 | direct |

If a complete, valid path is specified, a window is displayed with the connections. If the window is not adequate to display these, additional windows are opened by entering PAGE DOWN or by clicking the mouse on the lower edge of the window (return with PAGE UP or by clicking the mouse on the upper edge of the window).

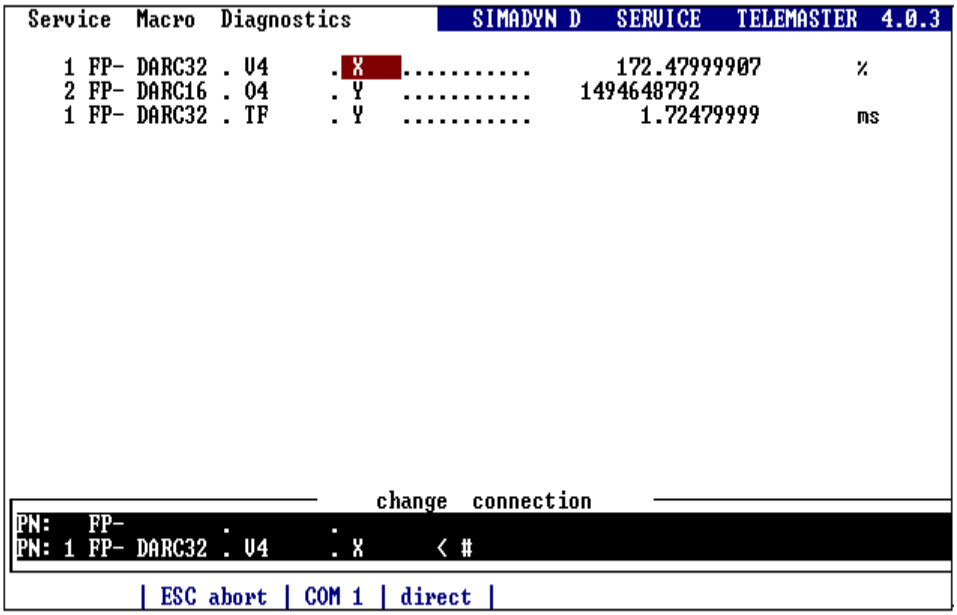
8.1.4 Change connection

This command lets you change the connections.

PN: [n] FP- [xxxxxx] . [yyyyyy] . [zzz]

n : is the processor number
xxxxxx : function package
yyyyyy : function block
zzz : connector

After an input connector has been selected, the output connector (only the same function package!), with the new connection can be entered.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
1 FP- DARC32 . V4 . X ..... 172.47999907 %
2 FP- DARC16 . O4 . Y 1494648792
1 FP- DARC32 . TF . Y ..... 1.72479999 ms
change connection
PN: FP- . .
PN: 1 FP- DARC32 . V4 . X < #
| ESC abort | COM 1 | direct |

If the connection is only to be disconnected, the following is valid:

PM3 : Enter #. The value, available at the time of disconnection, is held at the appropriate input connector.

PM16 : By entering a constant inside of the correct range of value, the connection is opened and the constant is connected at this input.

The question save Y/N should be responded to when depressing RETURN again after a value change: With y or Y , and RETURN to save in the EEPROM, with n,N and return, or only with RETURN (capitals are the default setting) for temporary storage.

If you press the TAB key instead of RETURN at the question save Y/N, the cursor returns to the first entry field. This makes it possible to make entries again.

8.1.5 Repeat parameter set

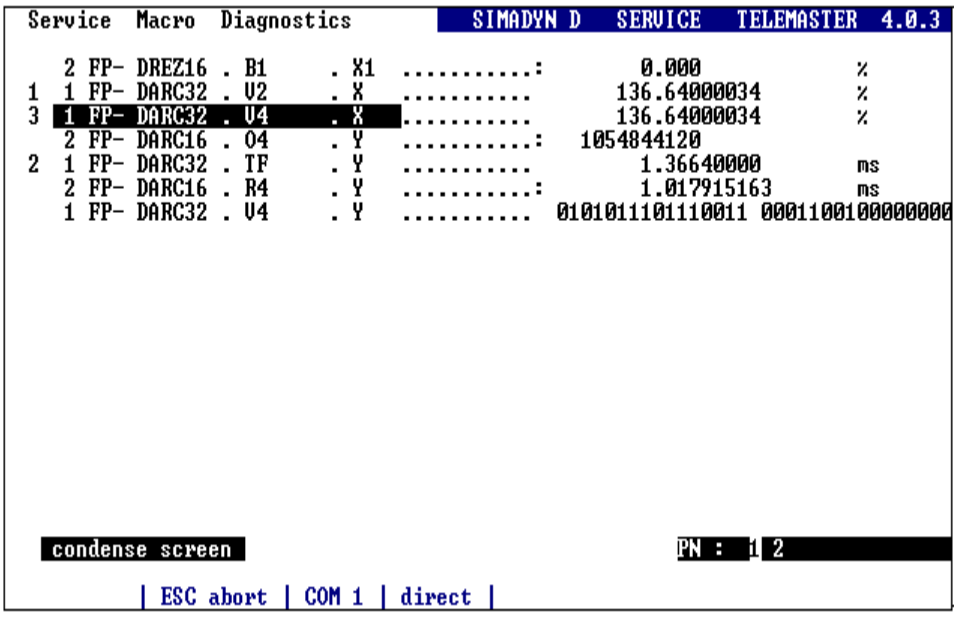
This command calls up a macro with the name BUFFER.DAT and displays it. Before doing so, the previously displayed values are deleted. This macro is created from the screen values when the IBS program is exited via the menu selection **Save commands and exit IBS**.

8.1.6 Stepping through parameters

This command calls up a macro with the name BUFFER.DAT and displays it. This macro is created from the screen values when the IBS program is exited via the menu selection **Save commands and exit IBS**. However, it takes each value one at a time and links it to values already available (18 values in maximum).

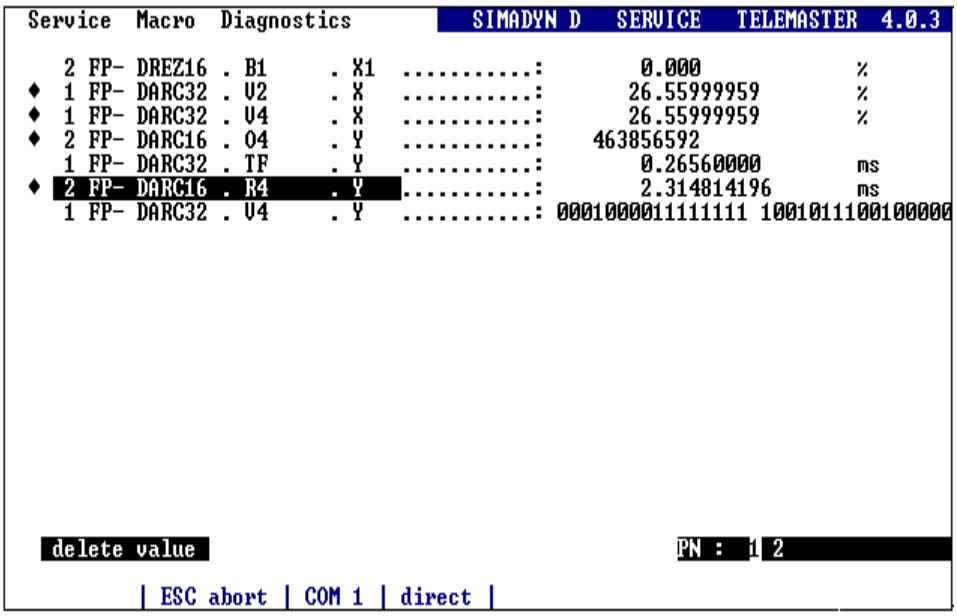
8.1.7 Condense screen

All values displayed here can be reassigned. By using the highlight bar and entering the code **T** (Tag), or by clicking ('double-click') the left button of the mouse, you can mark the values in increasing sequential order. To undo (de-select) all of your selections, use the code **U** (Untag), or the right button of the mouse. The selections will be entirely reset. Press **ENTER** or click on the screen selection **Condense Screen** with the left mouse button to call up all the marked (tagged) values again. All non-tagged values then disappear.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
2 FP- DREZ16 . B1 . X1 .....: 0.000 %
1 1 FP- DARC32 . V2 . X ..... 136.64000034 %
3 1 FP- DARC32 . V4 . X ..... 136.64000034 %
2 FP- DARC16 . O4 . Y .....: 1054844120
2 1 FP- DARC32 . TF . Y ..... 1.36640000 ms
2 FP- DARC16 . R4 . Y .....: 1.017915163 ms
1 FP- DARC32 . V4 . Y 0101011101110011 0001100100000000
condense screen
PN : 1 2
| ESC abort | COM 1 | direct |

8.1.8 Delete value

Use the highlight selection bar and enter the code **T** (Tag), or click ('double-click') with the left mouse button, to select the values to delete. To undo (de-select) all of your selections, use the code **U** (Untag), or the right button of the mouse. The selections will be entirely reset. Press **ENTER** or click on the screen selection **Delete Value** with the left mouse button to delete all the marked (tagged) values.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
2 FP- DREZ16 . B1 . X1 .....: 0.000 %
1 FP- DARC32 . V2 . X .....: 26.55999959 %
1 FP- DARC32 . V4 . X .....: 26.55999959 %
2 FP- DARC16 . O4 . Y .....: 463856592
1 FP- DARC32 . TF . Y .....: 0.26560000 ms
2 FP- DARC16 . R4 . Y .....: 2.314814196 ms
1 FP- DARC32 . V4 . Y .....: 0001000011111111 1001011100100000
delete value
PN : 1 2
| ESC abort | COM 1 | direct |

8.1.9 Reset service / monitor

This menu selection deletes the screen display and resets the SIMADYN D monitor and the service program (P32).

8.1.10 Save commands and exit IBS

The save procedure saves the given commands as macro BUFFER.DAT, ends the program and returns to the base menu. This procedure requires a few seconds to sign off the monitor and to reset the interface. Then the menu can be rechosen with the function key F10.

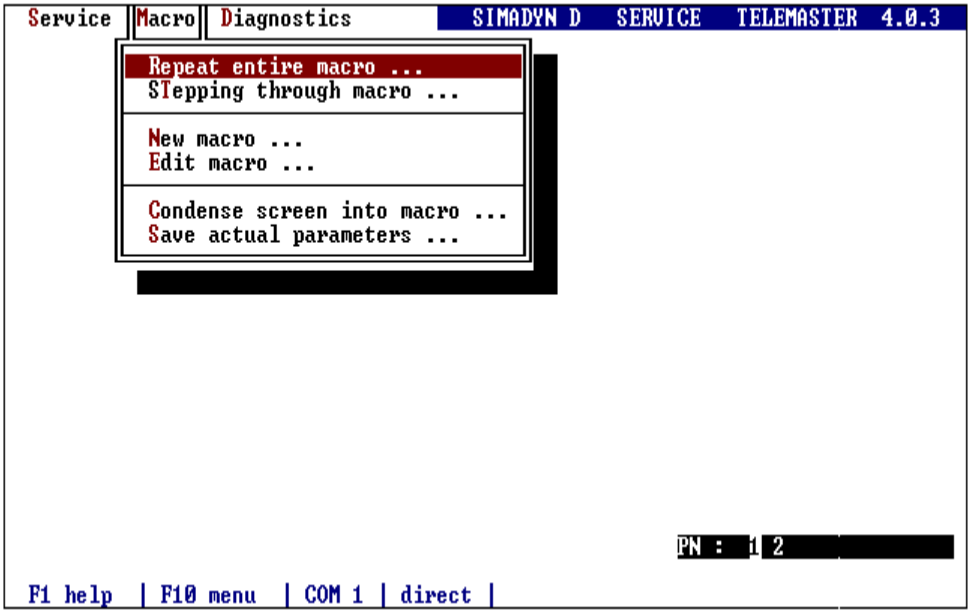
8.1.11 Exit IBS

The exit IBS procedure ends the program and returns to the base menu. This procedure requires a few seconds to sign off the monitor and to reset the interface. Then the menu can be rechosen with the function key F10.

8.1.12 EXit program

The exit procedure ends the program completely and returns to the operating system. This procedure requires a few seconds to sign off the monitor and to reset the interface.

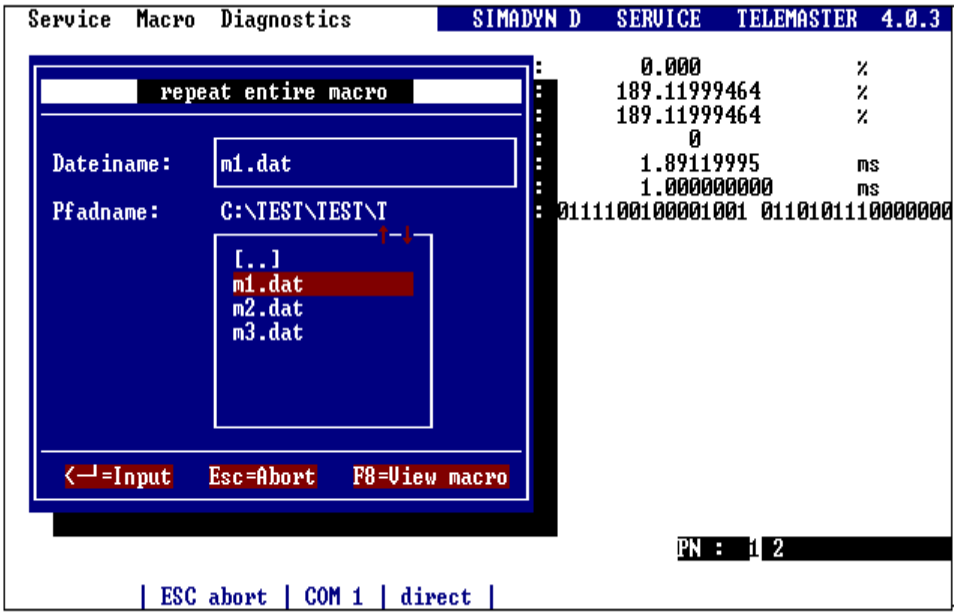
8.2 Macro



In a single macro you can save up to 18 Display Value commands. The file name of the macro may be a maximum of 8 characters long, and the file extension should be **.DAT**. While this file extension is not necessarily required, it is recommended. By naming all macros .DAT, they are easy to locate and distinguish from other files.

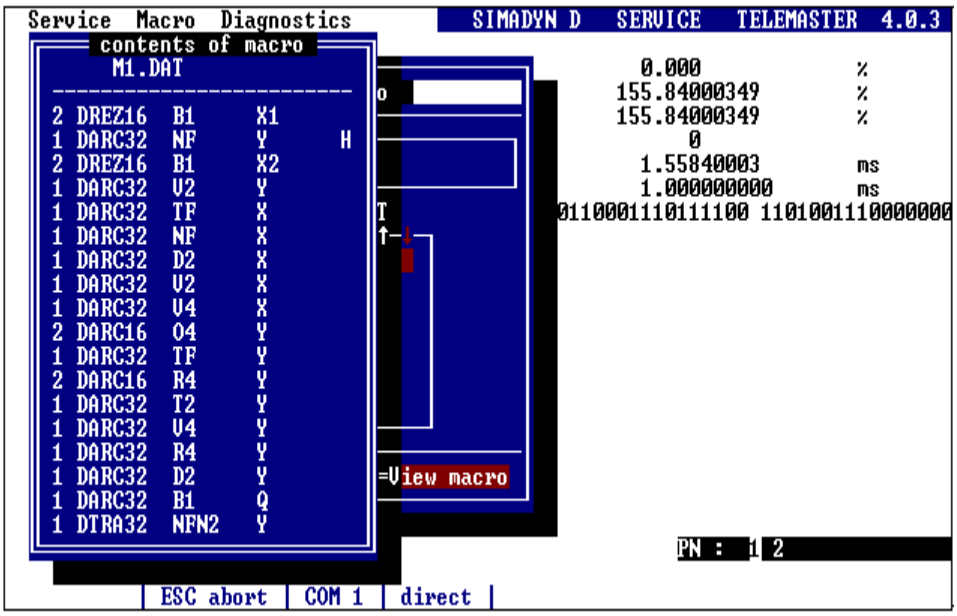
8.2.1 Repeat entire macro

All parameters stored in the macro are simultaneously called-up using this function, and available screen values deleted. The function is aborted with a fault message if non-available parameters are discovered.



A dialog window shows you all the macros that have been previously defined. From here, you can select and retrieve the desired macro. You can switch back and forth between the upper entry line (empty, but reserved) and the lower directory field by pressing the **TAB** key. Select the desired macro by positioning the highlight bar over it using the cursor control keys, and then press **ENTER** to retrieve it.
If you are using a mouse, position the mouse pointer on the desired macro and press the left mouse button to select it. Then press the ENTER key to retrieve it. Optionally, you may 'double-click' on the desired macro to select and retrieve it immediately. To scroll through the directory listing, you may click on the scroll bar arrow.

All values previously displayed on the screen are then deleted and the selected macro is retrieved and displayed.

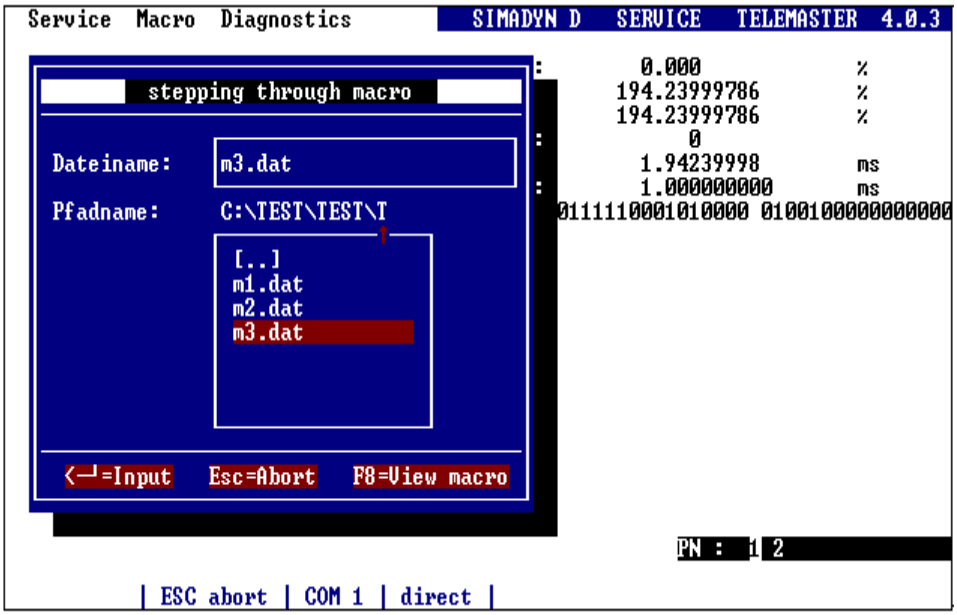


Function key F8: The macro contents are displayed.

8.2.2 Stepping through macro

This menu item is similar to the previous. However, when the macro is retrieved, the screen is not deleted and the macro commands are called up individually, one after the other, and linked to the values already shown on the screen as available. This procedure filters out unavailable connectors, i.e. prevents them from being used in the macro.

Example:
If a macro 18 commands long has only 10 that are valid, then it is not necessary to reenter the 10 valid commands. This function is activated after processing the 10 commands, which may then be saved under either a new name or the old. Before saving, you may enter up to 8 additional commands for the macro.



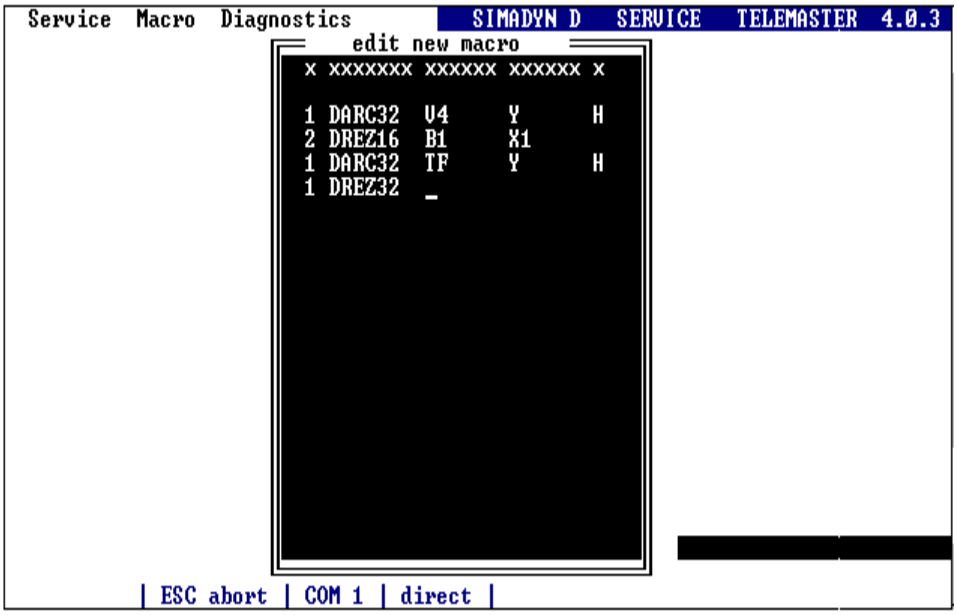
A dialog window shows you all the macros that have been previously defined. From here, you can select and retrieve the desired macro. You can switch back and forth between the upper entry line (empty, but reserved) and the lower directory field by pressing the **TAB** key. Select the desired macro by positioning the highlight bar over it using the cursor control keys, and then press **ENTER** to retrieve it.

If you are using a mouse, position the mouse pointer on the desired macro and press the left mouse button to select it. Then press the ENTER key to retrieve it. Optionally, you may 'double-click' on the desired macro to select and retrieve it immediately. To scroll through the directory listing, you may click on the scroll bar arrow.

Function key F8: The macro contents are displayed.

8.2.3 New macro

The function lets you create a macro from within your own dialog field, even if you do not have a SIMADYN D monitor connection.

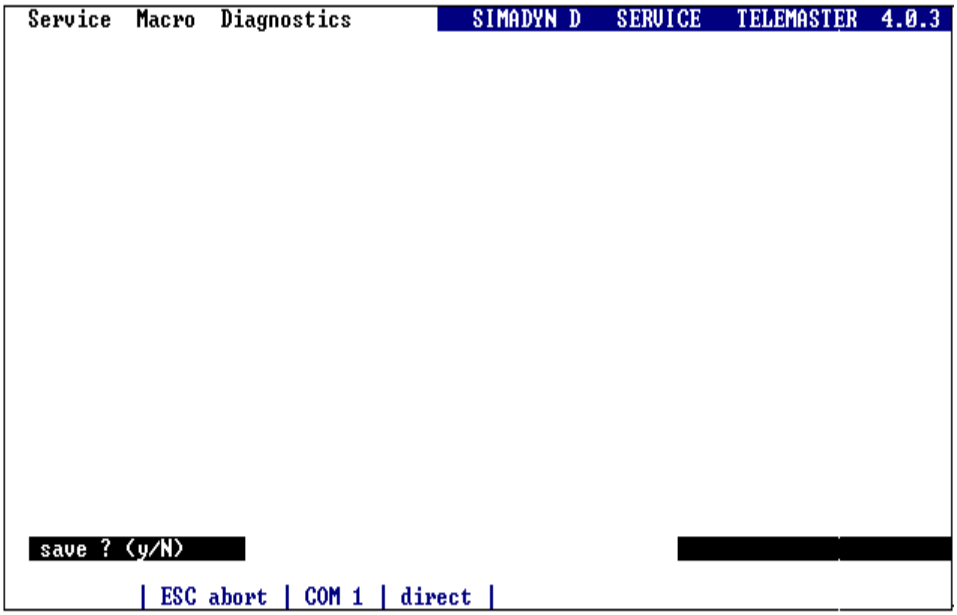

Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
edit new macro
x xxxxxxx xxxxxx xxxxxx x
1 DARC32 V4 Y H
2 DREZ16 B1 X1
1 DARC32 TF Y H
1 DREZ32
| ESC abort | COM 1 | direct |

To create the macro, you may use most WordStar commands in the header line. To make it easier to use, the following function keys have also been provided:

F1	home	F2	search	F3	search/replace	F4	repeat
F5	copy	F6	blockwrite	F7	blockread	F8	blockmove
F9	blockdel	F10	end				

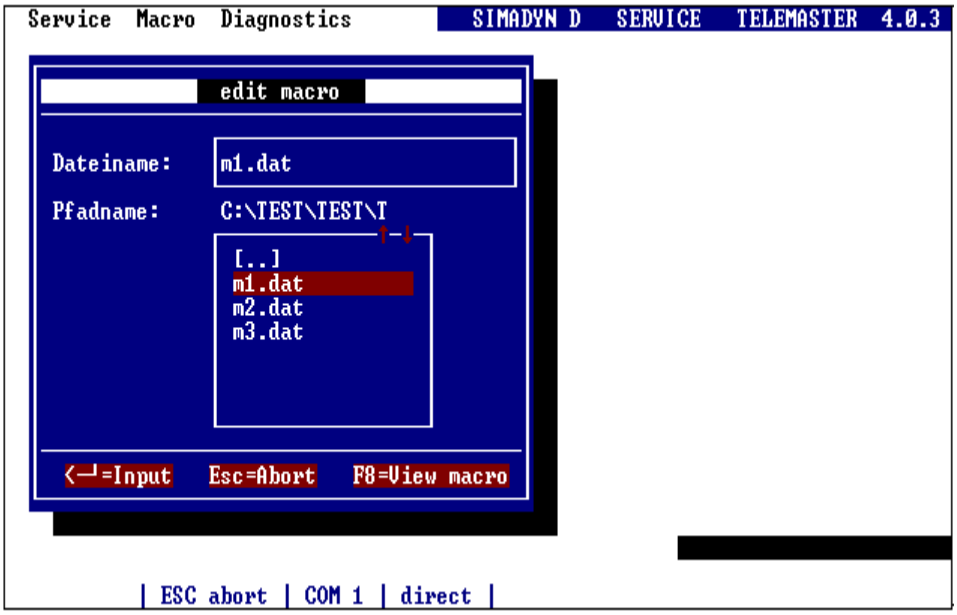
During editing, if you enter a period (dot), the cursor moves to the next grid field to the right. If you are editing more than 18 lines, they will scroll up, toward and off, the top of the screen as you add each line. When the macro is saved, it will contain more than 18 commands. However, only the last 18 will be used when the macro is executed.

Exit by entering ESC and replying to the prompt: Save ? (Y/N).



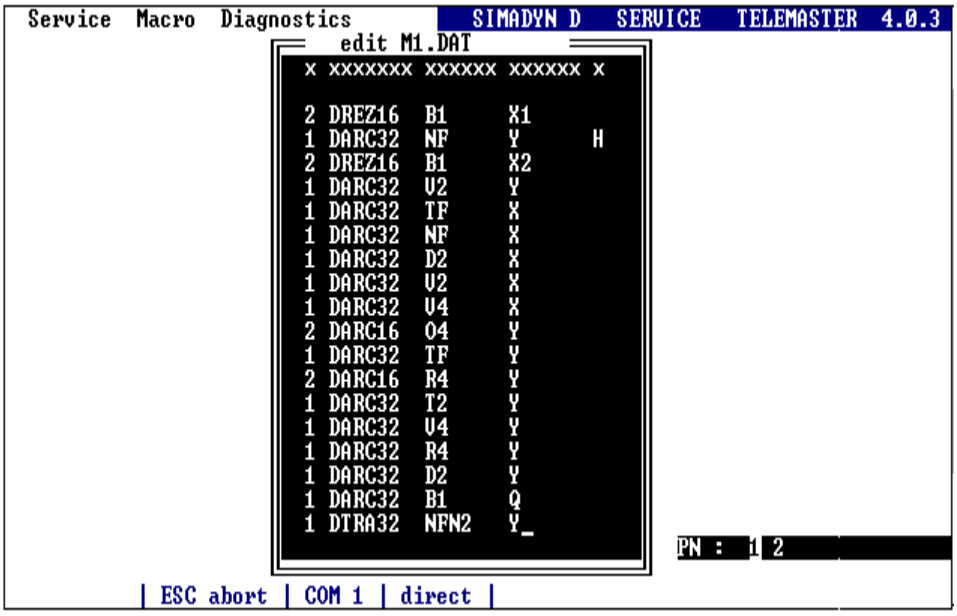
8.2.4 Edit macro

You can edit a macro even if you do not have a SIMADYN D monitor connection. A dialog window shows you all the macros that have been previously defined.



From here, you can select and retrieve the desired macro. You can switch back and forth between the upper entry line (empty, but reserved) and the lower directory field by pressing the **TAB** key. Select the desired macro by positioning the highlight bar over it using the cursor control keys, and then press **ENTER** to retrieve it.

If you are using a mouse, position the mouse pointer on the desired macro and press the left mouse button to select it. Then press the ENTER key to retrieve it. Optionally, you may 'double-click' on the desired macro to select and retrieve it immediately. To scroll through the directory listing, you may click on the scroll bar arrow.

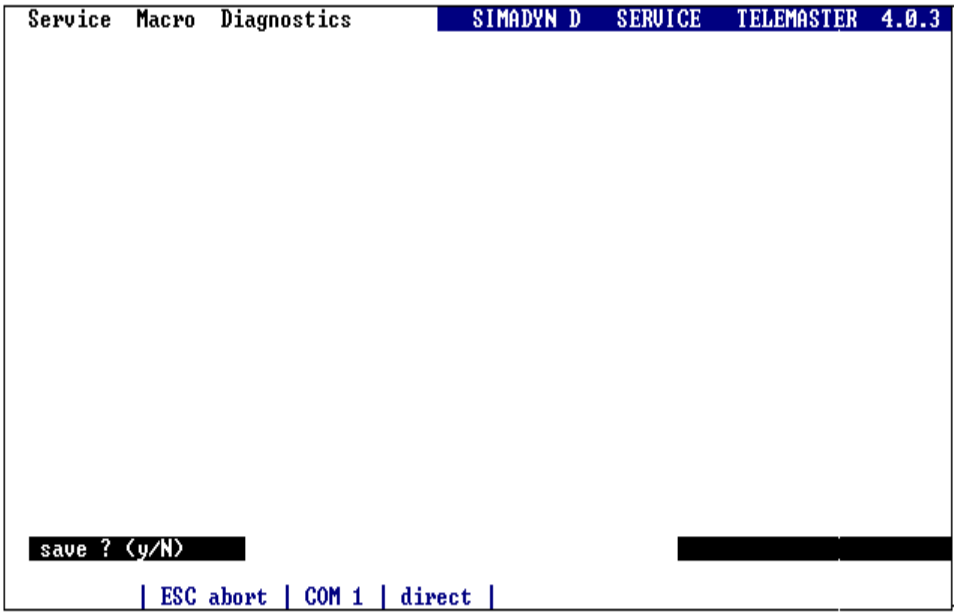

Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
edit M1.DAT
x xxxxxxx xxxxxx xxxxxx x
2 DREZ16 B1 X1
1 DARC32 NF Y H
2 DREZ16 B1 X2
1 DARC32 V2 Y
1 DARC32 TF X
1 DARC32 NF X
1 DARC32 D2 X
1 DARC32 V2 X
1 DARC32 V4 X
2 DARC16 O4 Y
1 DARC32 TF Y
2 DARC16 R4 Y
1 DARC32 T2 Y
1 DARC32 V4 Y
1 DARC32 R4 Y
1 DARC32 D2 Y
1 DARC32 B1 Q
1 DTRA32 NFN2 Y
PN : 1 2
| ESC abort | COM 1 | direct |

To edit the macro, you may use most WordStar commands in the header line. To make it easier to use, the following function keys have also been provided:

F1	home	F2	search	F3	search/replace	F4	repeat
F5	copy	F6	blockwrite	F7	blockread	F8	blockmove
F9	blockdel	F10	end				

During editing, if you enter a period (dot), the cursor moves to the next grid field to the right. If you are editing more than 18 lines, they will scroll up, toward and off, the top of the screen as you add each line. When the macro is saved, it will contain more than 18 commands. However, only the last 18 will be used when the macro is executed.

Exit by entering ESC and replying to the prompt: Save ? (Y/N).

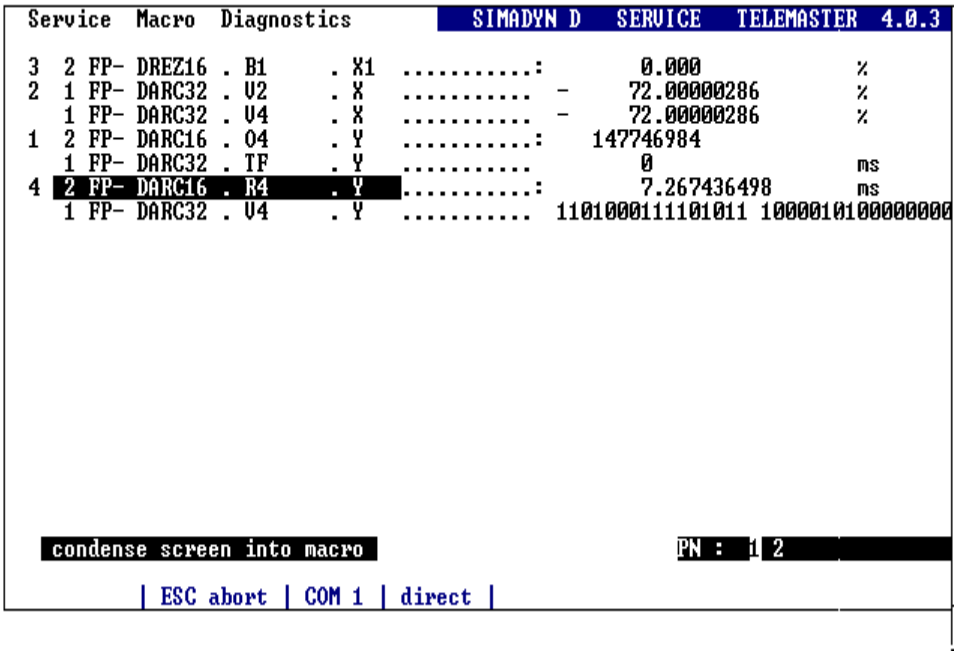


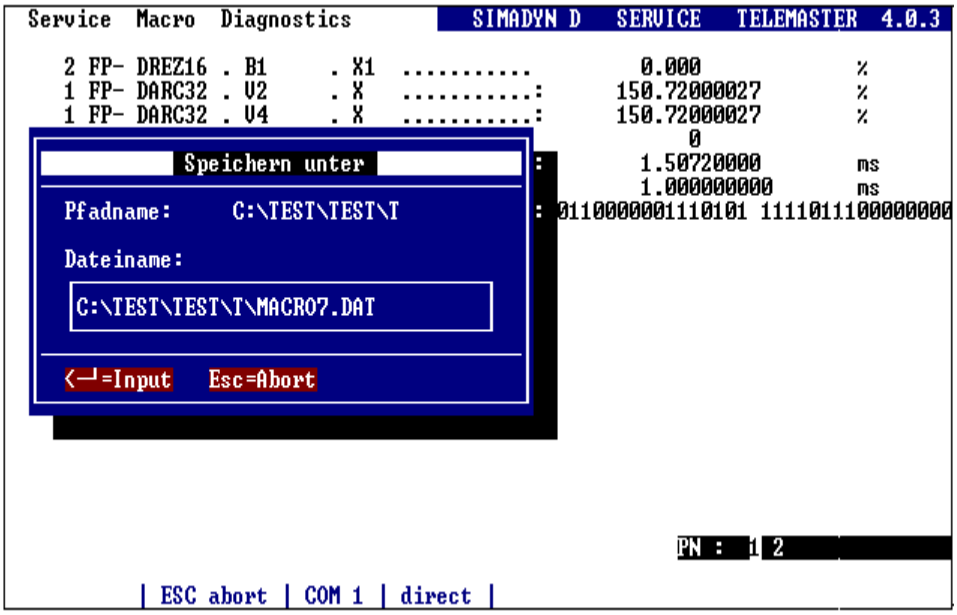
8.2.5 Condense Screen into macro

This function lets you assemble a macro on the screen and then save it under the name of your choice with extensions .DAT. These commands may also be used later for other applications. Therefore, when you assign the name, you should take into consideration the frame, the drive number, and the function.

W A R N I N G
The name will not be verified, i.e. for existing files,the old data will be overwritten.

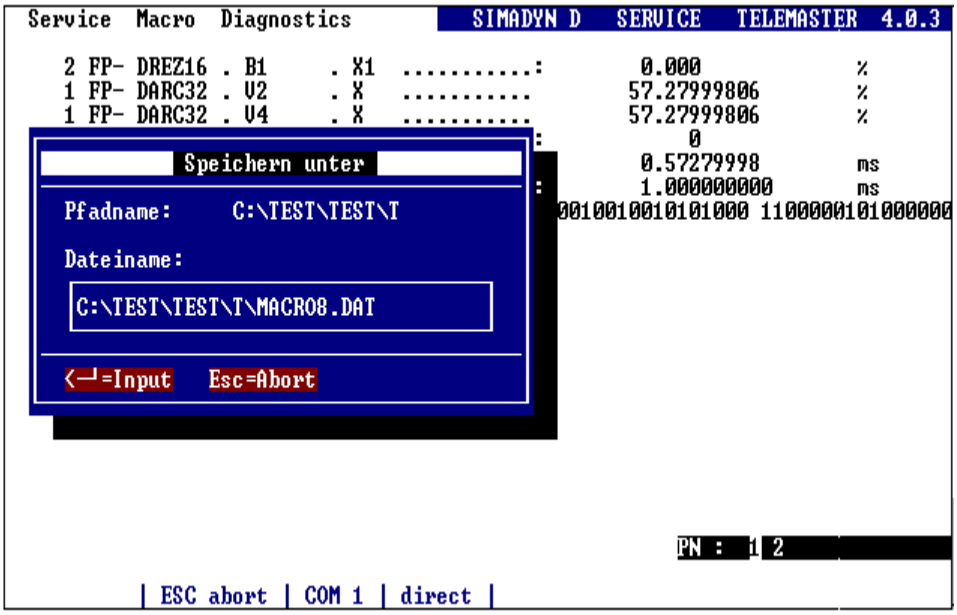
By using the highlight bar and entering the code **T** (Tag), or by clicking ('double-click') the left button of the mouse, you can mark the current values in increasing sequential order and save them in a macro. To undo (de-select) all of your selections, use the code **U** (Untag), or the right button of the mouse. The selections will be entirely reset. Press **ENTER** or click on the screen selection **Condense Screen into macro** to save the values into a macro.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
3 2 FP- DREZ16 . B1 . X1 .....: 0.000 %
2 1 FP- DARC32 . V2 . X ..... - 72.00000286 %
1 FP- DARC32 . V4 . X ..... - 72.00000286 %
1 2 FP- DARC16 . O4 . Y .....: 147746984
1 FP- DARC32 . TF . Y ..... 0 ms
4 2 FP- DARC16 . R4 . Y .....: 7.267436498 ms
1 FP- DARC32 . V4 . Y 1101000111101011 1000010100000000
condense screen into macro
PN : 1 2
| ESC abort | COM 1 | direct |


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
2 FP- DREZ16 . B1 . X1 ..... 0.000 %
1 FP- DARC32 . V2 . X .....: 150.72000027 %
1 FP- DARC32 . V4 . X .....: 150.72000027 %
0
1.50720000 ms
1.000000000 ms
0110000001110101 1111011100000000
Speichern unter
Pfadname: C:\TEST\TEST\T
Dateiname:
C:\TEST\TEST\T\MACRO7.DAT
<-=Input Esc=Abort
PN : 1 2
| ESC abort | COM 1 | direct |

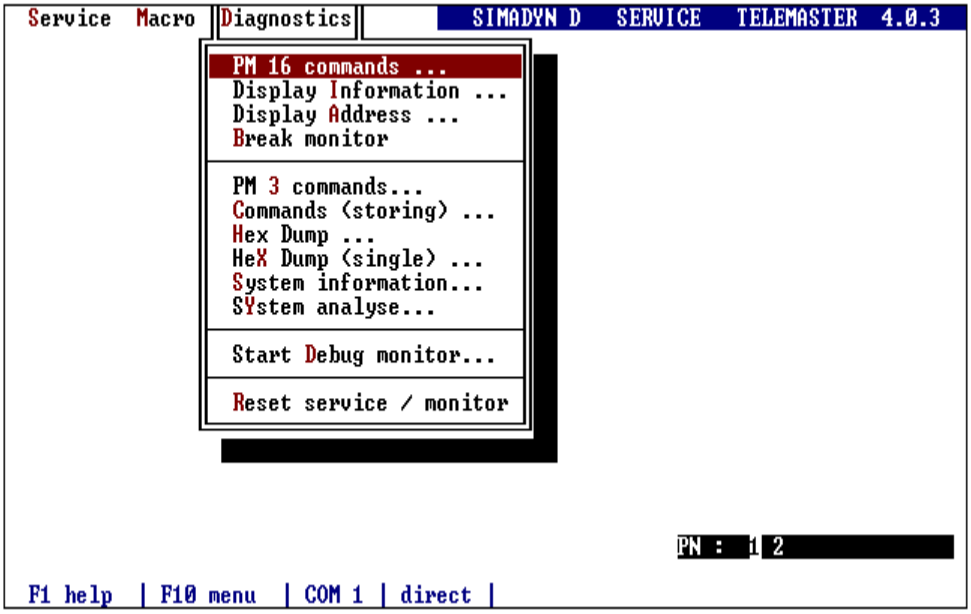
8.2.6 Save actual parameters

This function lets you save the commands available on the screen under the name of your choice with extension .DAT. These commands may also be used later for other applications. Therefore, when you assign the name, you should take into consideration the frame, the drive number, and the function.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
2 FP- DREZ16 . B1 . X1 .....: 0.000 %
1 FP- DARC32 . U2 . X ..... 57.27999806 %
1 FP- DARC32 . U4 . X ..... 57.27999806 %
0
0.57279998 ms
1.000000000 ms
0010010010101000 1100000101000000
Speichern unter
Pfadname: C:\TEST\TEST\T
Dateiname:
C:\TEST\TEST\T\MACRO8.DAT
<-┘=Input Esc=Abort
PN : 1 2
| ESC abort | COM 1 | direct |

W A R N I N G
The name will not be verified, i.e. for existing files,the old data will be overwritten.

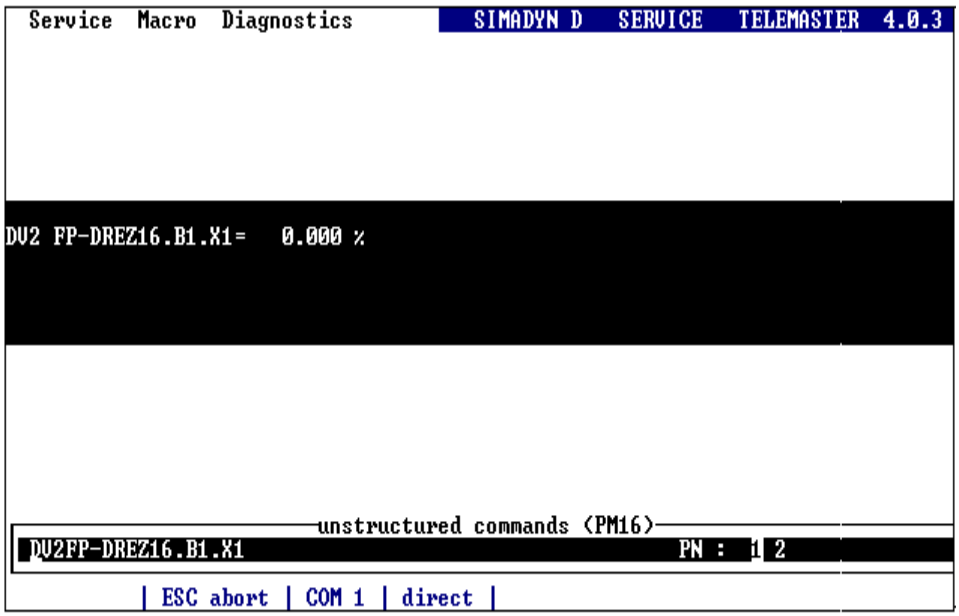
8.3 Diagnostic



Additional commands and functions may be entered together under this menu selection.

8.3.1 PM 16 commands

Here you can enter the commands as you do from the pocket device.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
DV2 FP-DREZ16.B1.X1= 0.000 %
unstructured commands (PM16)
DV2FP-DREZ16.B1.X1
PN : 1 2
| ESC abort | COM 1 | direct |

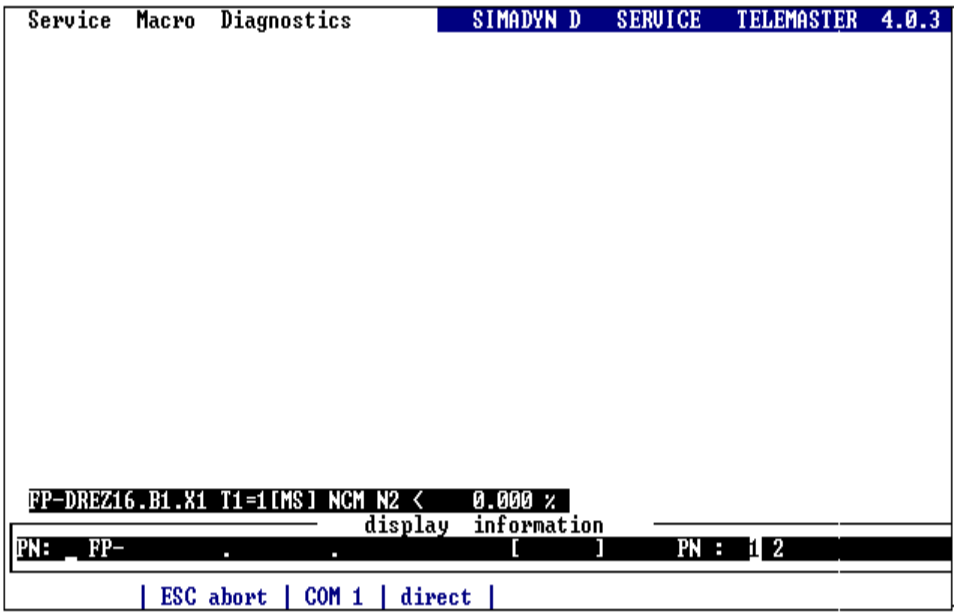
8.3.2 Display Information

This command shows the function block type and the scanning times (both calculated and actually used). The syntax for this is as follows:

PN: [n] FP- [xxxxxx] . [yyyyyy] . [zzz]

n : is the processor number
xxxxxx : function package
yyyyyy : function block
zzz : connector

If a $ is entered as the first character of the FP field, any input of function blocks and connectors will no longer be considered.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
FP-DREZ16.B1.X1 T1=1[MS] NCM N2 < 0.000 %
display information
PN: FP- . . [ ] PN : 1 2
| ESC abort | COM 1 | direct |

The following is possible if the cursor is positioned to the PN data entry field

a: After a valid processor number has been entered, using the keys + and -, the previous command can be re-displayed, so that if required it can be changed, and then executed with RETURN.

b: By entering t or T, values already displayed on the screen can be transferred to the input line using the cursor control keys - processor, function package,- function block or also connector (return with TAB).

c: By clicking the mouse on already displayed processors, function packages, function blocks, as well as connectors, then the appropriate quantities can be transferred into the command line.

If path information, such as function package, function block or connector are missing, all of those available are displayed in a dedicated window. If there are more than 40 function packages, function blocks or connectors, then a maximum of 40 additional ones can be displayed by entering PAGE DOWN or by clicking the mouse on the lower edge of the window.

The previous page is selected by PAGE UP or clicking the mouse on the upper edge of the window. The required name is transferred into the input line via the cursor control keys or by directly clicking with the mouse, and the connector values are requested using RETURN (by clicking on the mouse twice, this requests it directly).

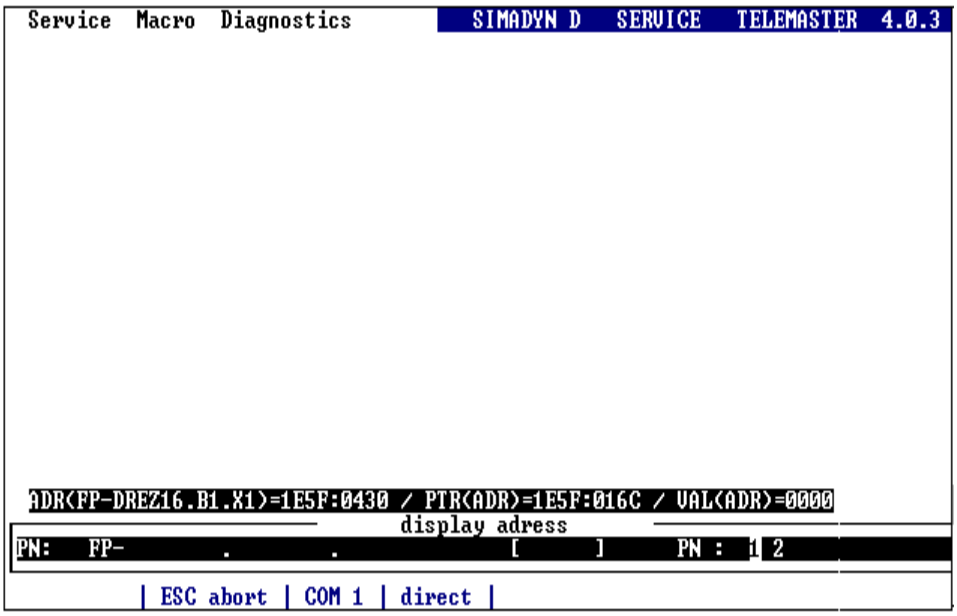
8.3.3 Display Address

This command retrieves the address of a connector. The syntax for this is as follows:

PN: [n] FP- [xxxxxx] . [yyyyyy] . [zzz] [E]

n : is the processor number
xxxxxx : function package
yyyyyy : function block
zzz : connector
E : Expanded address area (optional)

If a $ is entered as the first character of the FP field, any input of function blocks and connectors will no longer be considered, except with the E option.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
ADR(FP-DREZ16.B1.X1)=1E5F:0430 / PTR(ADR)=1E5F:016C / VAL(ADR)=0000
display adress
PN: FP- . . [ ] PN : 1 2
| ESC abort | COM 1 | direct |

The following is possible if the cursor is positioned to the PN data entry field

a: After a valid processor number has been entered, using the keys + and -, the previous command can be re-displayed, so that if required it can be changed, and then executed with RETURN.

b: By entering t or T, values already displayed on the screen can be transferred to the input line using the cursor control keys - processor, function package, - function block or also connector (return with TAB).

c: By clicking the mouse on already displayed processors, function packages, function blocks, as well as connectors, then the appropriate quantities can be transferred into the command line.

If path information, such as function package, function block or connector are missing, all of those available are displayed in a dedicated window. If there are more than 40 function packages, function blocks or connectors, then a maximum of 40 additional ones can be displayed by entering PAGE DOWN or by clicking the mouse on the lower edge of the window. The previous page is selected by PAGE UP or clicking the mouse on the upper edge of the window. The required name is transferred into the input line via the cursor control keys or by directly clicking with the mouse, and the connector values are requested using RETURN (by clicking on the mouse twice, this requests it directly).

8.3.4 Break monitor

This selection aborts the continuous monitor output display.

8.3.5 PM 3 commands

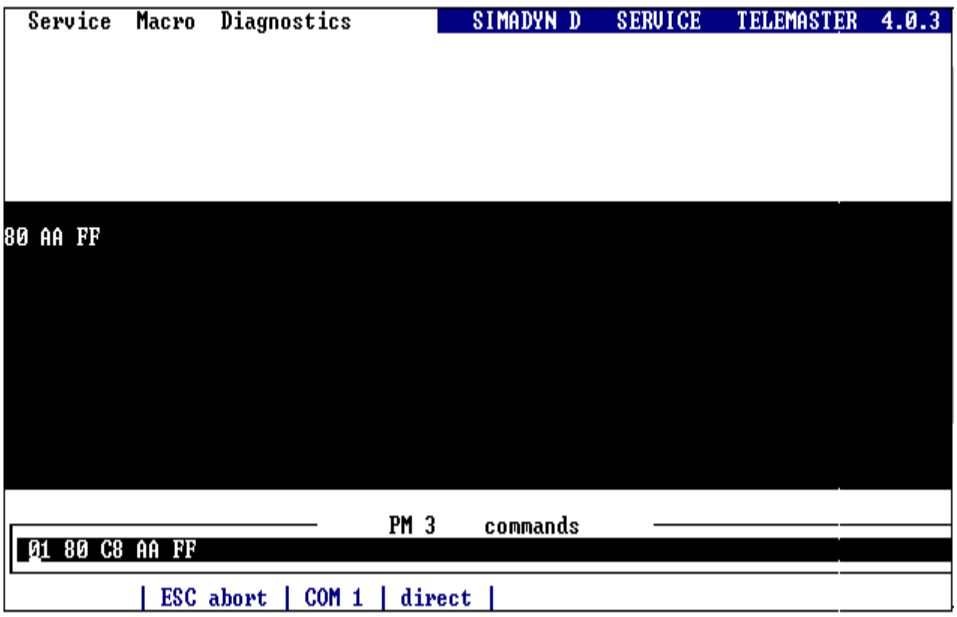
PM3 commands can be entered in the hexadecimal format.

Example of a data input: 01 80 C8 AA FF

The hexadecimal values have the following significance:

01	Processor number (range 01 . . 08)
80	Task number (range 80 . . A0)
C8	Command code for mirror task
AA and FF	The telegram contents to be mirrored from the processor

Blanks between the individual hexadecimal values are not required; they are just used for clarity. Only digits 0 . . 9, characters A . . F and blanks are accepted.



8.3.6 Commands (storing)

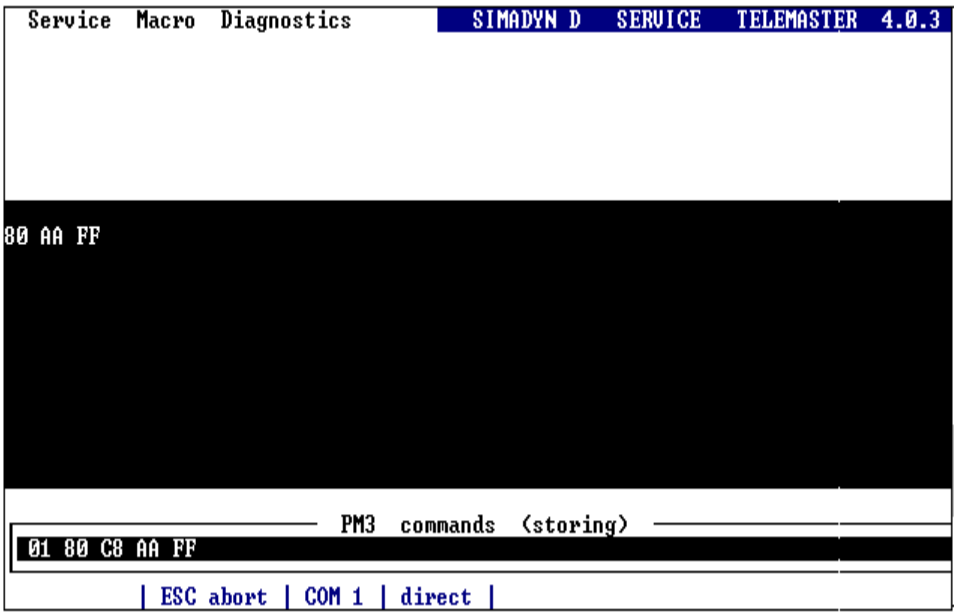
PM3 commands can be entered in the hexadecimal format. The commands and the associated SIMADYN D responses are stored in a file with the name PM3.REC. This file is overwritten after exiting this option and renewed execution!

Example of a data input: 01 80 C8 AA FF

The hexadecimal values have the following significance:

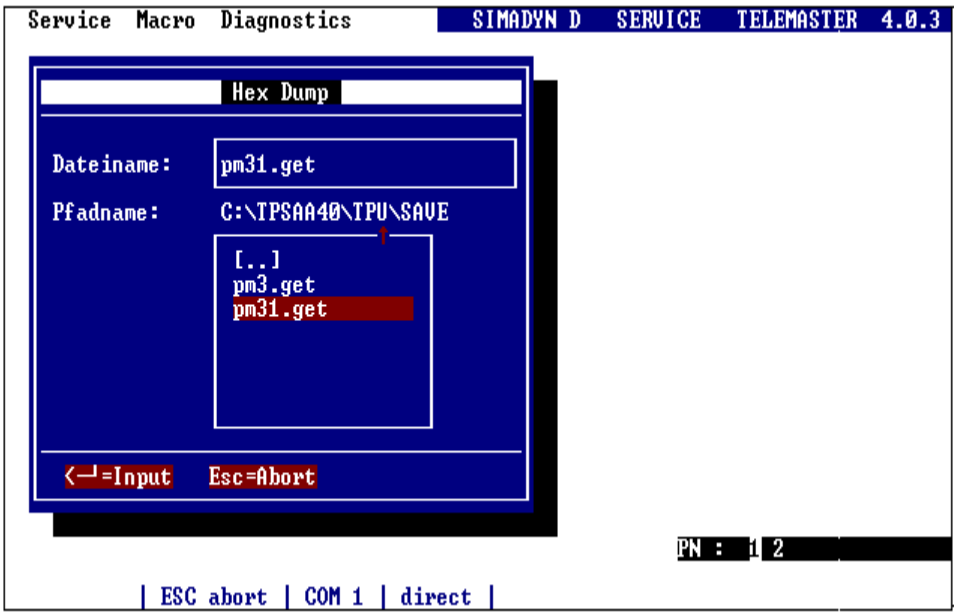
01	Processor number (range 01 . . 08)
80	Task number (range 80 . . A0)
C8	Command code for mirror task
AA and FF	The telegram contents to be mirrored from the processor

Blanks between the individual hexadecimal values are not required; they are just used for clarity. Only digits 0 . . 9, characters A . . F and blanks are accepted.


Service Macro Diagnostics
SIMADYN D SERVICE TELEMASTER 4.0.3
80 AA FF
PM3 commands (storing)
01 80 C8 AA FF
| ESC abort | COM 1 | direct |

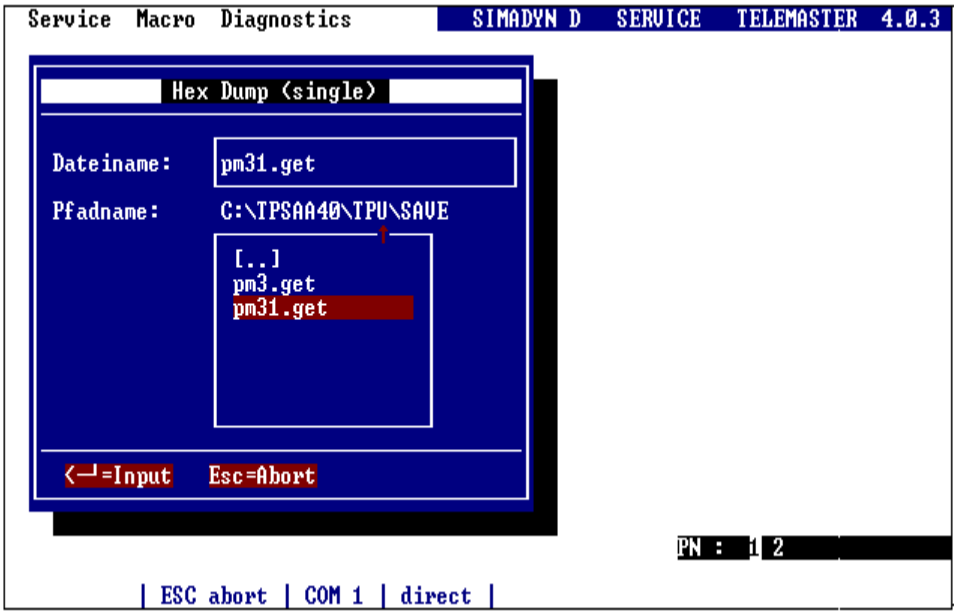
8.3.7 Hex dump

This can be used to automatically execute a text file with the name *.GET, which consists of PM3 commands in the hexadecimal format. The commands and the associated SIMADYN D responses are stored in a text file with the name *.PUT.



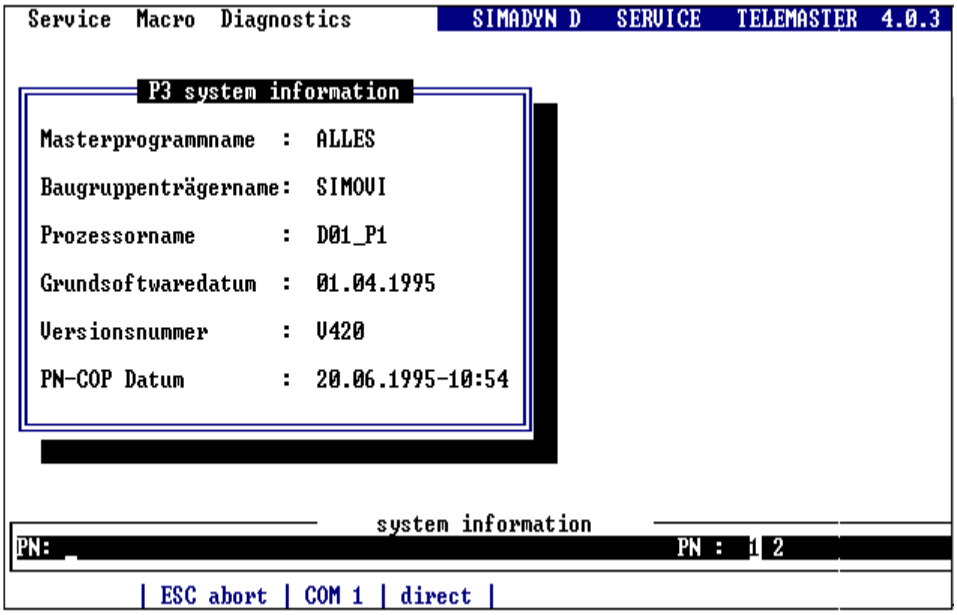
8.3.8 Hex dump (single)

This can be used to execute a text file with the name *.GET, which consists of PM3 commands in the hexadecimal format, in individual steps (continue with space bar). The commands and the associated SIMADYN D responses are stored in a text file with the name *.PUT.



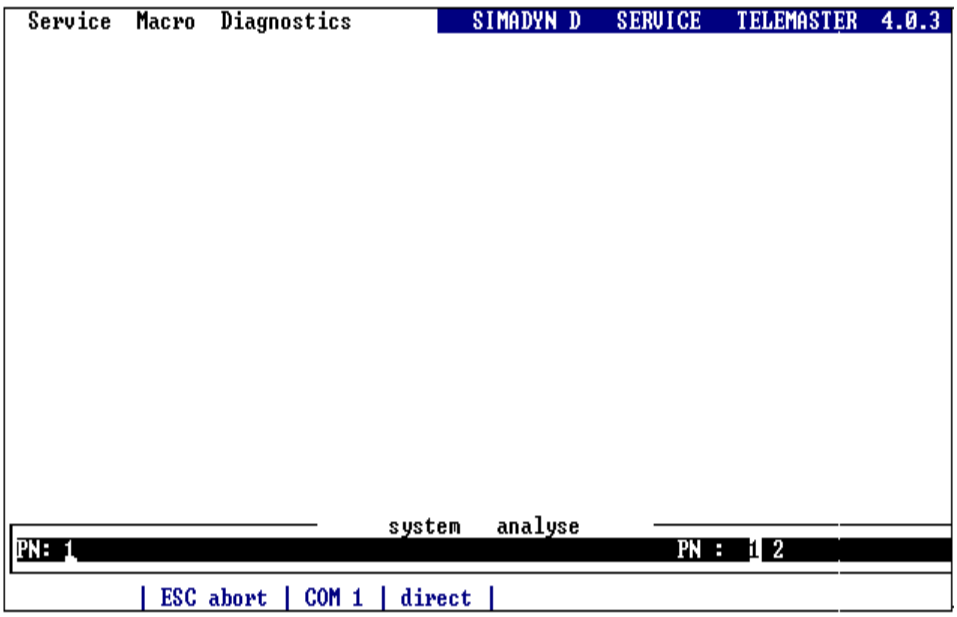
8.3.9 System information

This menu item provides information regarding the selected processor.



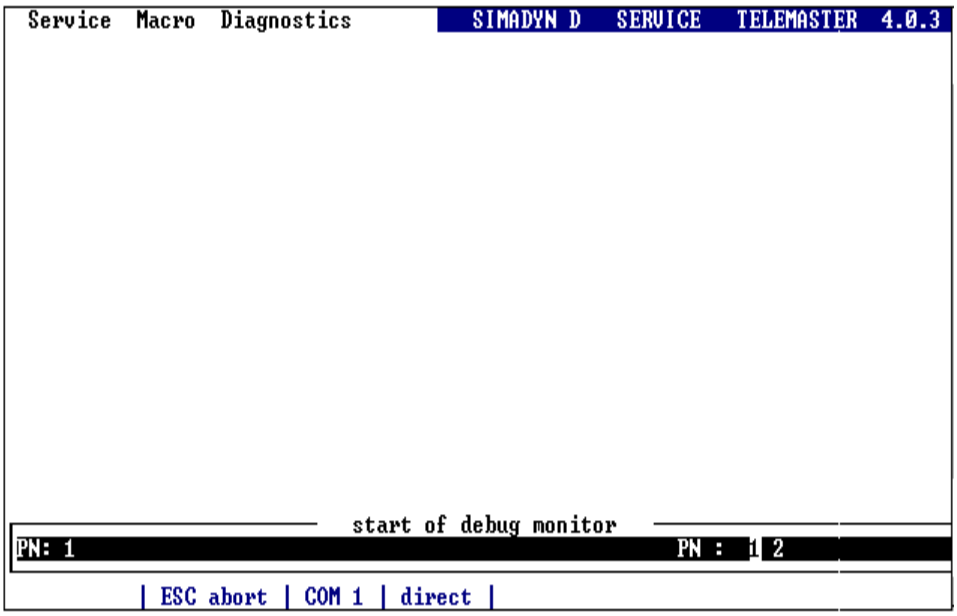
8.3.10 System analyse

The fault field of the processor to be selected is stored in the file SIMDPNn.ERR (preliminary stage before subsequent automatic fault analysis).



8.3.11 Start debug monitor

This menu item is used to start the debug monitor of the appropriate processor for differentiated fault analysis. The services of this processor are interrupted. The debug monitor can be handled via the processor-local connection line after the IBS program has been terminated, and the services are returned by using "qq". (**Not possible for PM16**).



8.3.12 Reset service / monitor

This command deletes the screen entries and resets the service or / and the monitor.